

ART. II.—*A Systematic Census of Indigenous Fish, hitherto recorded from Victorian Waters.*

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INTRODUCTION.

The classification followed in this Census is that adopted by the Hon. Sir William Macleay in his "Descriptive Catalogue of Australian Fish." It is, in the main, that of Dr. Günther, as elaborated in his "Catalogue of Fishes of the British Museum."

To each species is appended :—(1) The name of the author who, either originally described it, or who gave the *specific* name finally accepted, and an exact reference to the work in which the description or denomination first appeared, with the date of publication. (2) References to the more important synonyms, in cases where it was thought any ambiguity might exist. (3) A reference to the figure in case of those fish which have been figured. Where a fish has been figured more than once, usually only the latest or most accessible figure is recorded. The most important of these illustrations are the figures in the Plates of Professor M'Coy's "Prodromus of Victorian Zoology." (4) The localities from which the species have been obtained, as far as known with precision. (5) The vernacular name as used in Victoria. Those species of which only single specimens have been obtained appear in parentheses, as do any others of whose occurrence in Victorian waters there is any doubt. Amongst these last, I have included all the species described or labelled as coming from Hobson's Bay or Port Phillip by Dr. Klünzinger, in the "Archiv. f. Naturg. xxxvii," 1872, since it seems probable that some South Australian fish have been confused with others sent to the Stuttgart Museum from Victoria. It seemed wiser to incorporate in the Census the species as given by so considerable an authority as Dr. Klünzinger, but questions of local distribution can only be satisfactorily settled by resident local workers, and it remains for evidence to be forthcoming to vindicate Dr. Klünzinger's Victorian records.

As it stands, the list includes 233 species. There can be no doubt but that many additions will be made, especially of smaller species, and of species living in deeper waters, which require the use of the trawl for their capture. On the other hand, it seems highly probable that several forms ranked as species are really but varieties. This is notably the case in the genera *Monacanthus*, *Labrichthys* and possibly *Galaxias*.

Our Fish Fauna has been very tardily worked out, and much remains to be done even now. A few of our fish are world-wide in their distribution, and the species thus secured the great Linnæus as their sponsor. The first strictly Australian species described are, I believe, to be found in the pages of "White's Journal to New South Wales," published in 1790. Amongst these, a very few Victorian forms are figured, in company with the Great Brown Kingfisher, and other "*species non-descripti*," as White terms them. As expeditions from Europe became more frequent, Australian fish appear in the systematic works, first of Bloch and of Lacépède, and later on of Cuvier and Valenciennes. The voyages of the Freycinet Expedition, of the *Astrolabe*, *Beagle*, *Erebus* and *Terror*, added a large number of Australian species in the Zoological Appendices to their Narratives. To Drs. Quoy and Gaimard, to Jenyns, and to Sir John Richardson, we owe thus a number of descriptions. To the latter too, were forwarded several consignments of Tasmanian fish, and of course many of these are common to Victoria and Tasmania; but it was not until 1872 that a serious study was made of Victorian forms proper. In that year Count F. de Castelnau, well-known for his previous researches on the fish of South America and of the Cape of Good Hope, published in the "Proceedings of the Zoological Society of Victoria," descriptions of about 150 species, which he had obtained, mostly from the Melbourne Fish Market. In the succeeding year, he added notes on more species. The Count's labours have made the work of those who follow him mainly of a supplementary nature. Amongst others who have worked during the last twenty years at our fishes, have been Drs. Günther, Steindachner, Klünzinger, and especially the Hon. Sir William Macleay, of Sydney, who has done so much for Australian Ichthyology in many ways, and most of all by the publication of his excellent "*Descriptive Catalogue of Australian Fish*." Finally, Professor McCoy has given detailed descriptions and figures, usually in colours, of over 50 species of our Victorian fish.

SUB-CLASS I.—TELEOSTEI.

ORDER I.—ACANTHOPTERYGII.

DIVISION I.—ACANTHOPTERYGII PERCIFORMES.

FAMILY PERCIDÆ.

LATES, Cuvier.

- L. colonorum*, Günther, A.M.N.H., p. 114, 1863.
 Macleay Cat. 2.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 14.
 Loc.—Gippsland Lakes. Occurs also at Sandridge and
 at the mouth of the Saltwater River, M'Coy, l.c.
 Vernacular name—*Gippsland Perch*.
- L. similis*, Castelnau, P.Z.S. Vict. I, p. 44, 1872.
 Macleay Cat. 3.
 Loc.—Gippsland Lakes, scarce, Castelnau, l.c.
- L. antarcticus*, Castelnau, P.Z.S. Vict. I, p. 44, 1872.
 Macleay Cat. 4.
 Syn.—*L. colonorum*, var., M'Coy, l.c.
 Vernacular name—*Sea Perch*.
- L. victorice*, Castelnau, P.Z.S. Vict. I, p. 45, 1872.
 Macleay Cat. 5.

MICROPERCA, Castelnau.

- M. yarree*, Castelnau, P.Z.S. Vict. I, p. 48, 1872.
 Macleay Cat. 12.
 Loc.—Lower Yarra, Castelnau, l.c.

ENOPLIUS, Lacépède.

- E. armatus*, White sp., Voyage to N.S.W., 1790.
 Günther Cat. I, p. 81; Macleay Cat. 13.
 Figured, White, Voy. to N.S.W., pl. 39.
 Loc.—*Passim*.
 Vernacular name—*Bastard Dorey, Old Wife, Zebra-fish*.

(ANTHIAS, Bloch.)

- (*A. rator*, Richardson, P.Z.S., p. 95, 1839.)
 Günther Cat. I, p. 93; Macleay Cat. 16.
 Figured, Richardson, T.Z.S., 1849, pl. 4.
 Loc.—One specimen from Western Port, Castelnau,
 P.Z.S. Vict. I, p. 51.
 Vernacular name—*Tasmanian Red Perch* or *Barber*.

(NANNOPERCA, Günther.)

- (*N. obscura*, Klünzinger, Archiv. f. Naturg., xxxviii., 1872.)
 Macleay Cat. Sup. 1144.
 Loc.—“Yarra Lagoon,” Klünzinger, l.c.

APOGON, Lacépède.

- A. Güntheri*, Castelnau, P.Z.S. Vict. I, p. 46, 1872.
 Macleay Cat. 91.
 Syn.—Perhaps—*A. novæ hollandiæ*, Val. (Macleay, l.c.)
 (*A. conspersus*, Klünzinger, Archiv. f. Naturg., xxxviii., 1872.)
 Macleay Cat. Sup. 1141.
 Loc.—Port Phillip, Klünzinger, l.c.

ARRIPIS, Jenyns.

- A. truttaceus*, Cuv. et Val., Poissons III, p. 50, 1829.
 Günther Cat. I, p. 253 ; Macleay Cat. 112.
 Syn.—Includes *A. salar*, Richardson, T.Z.S. III, p. 78.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 16, 17.
 Loc.—*Passim*.
 Vernacular name—*Salmon and Salmon-trout*.
A. georgianus, Cuv. et Val., Poissons VII, p. 451, 1831.
 Macleay Cat. 111.
 Figured, Richardson, Voy. Erebus and Terror, pl. 54.
 Loc.—Common according to Count Castelnau. I have
 not seen it.
 Vernacular name—*Roughey*.

OLIGORUS, Günther.

- O. macquariensis*, Cuv. et Val., Poissons III, p. 58, 1829.
 Günther Cat. I, p. 251 ; Macleay Cat. 114.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 85, 86.
 Loc.—Murray and tributaries ; now Yarra.
 Vernacular name—*Murray Cod*.
O. mitchellii, Castelnau, P.Z.S. Vict. II, p. 150, 1873.
 Macleay Cat. 115.
 Loc.—Murray R., Castelnau, l.c.
 Vernacular name—*Murray Perch*.

CTENOLATES, Günther.

- C. ambiguus*, Richardson, Voy. Erebus and Terror, p. 25,
 1846.
 Günther Cat. I, p. 270 ; Macleay Cat. 118.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 84.
 Syn.—*Dules auratus*, Castelnau, P.Z.S. Vict. I, p. 55.
 Loc.—Murray and tributaries.
 Vernacular name—*Murray Golden Perch*.

FAMILY PRISTIPOMATIDÆ.

MURRAYIA, Castelnau.

- M. Güntheri*, Castelnau, P.Z.S. Vict. I, p. 61, 1872.
 Macleay Cat. 121.
 Loc.—Murray R., Castelnau, l.c.

M. cyprinoides, Castelnau, P.Z.S. Vict. I, p. 62, 1872.
Macleay Cat. 122.

Loc.—Murray R., Castelnau, l.c.
Vernacular name—*Murray Carp*.

M. bramaoides, Castelnau, P.Z.S. Vict. I, p. 63, 1872.
Macleay Cat. 123.

Loc.—Murray R., Castelnau, l.c.
Vernacular name—*Murray Bream*.

M. riverina, Krefft, P.Z.S., p. 943, 1867.
Macleay Cat. 124.

Loc.—Murray and tributaries, Macleay, l.c.

(RIVERINA, Castelnau.)

(*R. fluviatilis*, Castelnau, P.Z.S. Vict. I, p. 64, 1872.)
Macleay Cat. 137.

Loc.—One specimen, Murray R., Castelnau, l.c.

THERAPON, Cuvier.

T. richardsoni, Castelnau, P.Z.S. Vict. I, p. 60, 1872.
Macleay Cat. 138.

Loc.—Murray R., Castelnau, l.c.
Vernacular name—*Murray Silver Perch*.

T. niger, Castelnau, P.Z.S. Vict. I, p. 59, 1872.
Macleay Cat. 139.

Loc.—Murray R., rare, Castelnau, l.c.
Vernacular name—*Murray Black Perch*.

HISTIOPTERUS, Richardson.

H. recurvirostris, Richardson, Voy. Erebus and Terror, p. 34,
1846.

Macleay Cat. 156.
Vernacular name—*Boar-fish*.

H. labiosus, Günther, P.Z.S. p. 658, 1871.
Macleay Cat. 157.

Figured, P.Z.S. 1871, pl. 59.
Loc.—Western Port and Port Phillip, Castelnau, P.Z.S.
Vict. I, p. 112.

GERRES, Cuvier.

G. melbournensis, Castelnau, P.Z.S. Vict. I, p. 158, 1872.
Macleay Cat. 173.

Loc.—Victorian seas, Castelnau, l.c.

FAMILY NANDIDÆ.

RUPPELIA, Castelnau.

R. prolongata, Castelnau, P.Z.S. Vict. II, p. 51, 1873.
Macleay Cat. 218.

Loc.—Victorian seas, Castelnau, l.c.
Vernacular name—*Devil-fish* (Castelnau).

FAMILY MULLIDÆ.

UPENEOIDES, Bleeker.

- U. blainvillii*, Cuv. et Val., Poissons III, p. 452, 1829.
 Günther Cat. I, p. 400; Macleay Cat. 222.
 Figured, Cuv. et Val., l.c. pl. 71.
 Loc.—Victorian seas, Castelnau, P.Z.S. Vict. II, p. 39.
 Vernacular name—*Red Mullet*.

UPENEICHTHYS, Bleeker.

- U. porosus*, Cuv. et Val., Poissons III, p. 455, 1829.
 Günther Cat. I, p. 400; Macleay Cat. 227.
 Loc.—Victorian seas; not very common.
 Vernacular name—*Red Gurnet, Red Mullet*.

FAMILY SPARIDÆ.

GIRELLA, Gray.

- G. tricuspidata*, Cuv. et Val., Poissons VI, p. 372, 1830.
 Günther Cat. I, p. 428; Macleay Cat. 231.
 Figured, Richardson, Voy. Erebus and Terror, pl. 25.
 Vernacular name—*Rock or Black Perch*.
- G. simplex*, Richardson, Voy. Erebus and Terror, p. 25, 1846.
 Günther Cat. I, p. 429; Macleay Cat. 232.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 73.
 Loc.—Gippsland Lakes; not very uncommon in Port Phillip.
 Vernacular name—*Ludrick*.
- (*G. blackii*, Castelnau, P.Z.S. Vict. II, p. 41, 1873.)
 Macleay Cat. 234.
 Loc.—"The specimen," Castelnau, l.c.

NEOTEPHREOPS, Castelnau.

- N. zebra*, Richardson, Voy. Erebus and Terror, p. 70, 1846.
 Günther Cat. I, p. 432; Macleay Cat. 239.
 Loc.—*Passim*.
 Vernacular name—*Zebra-fish*.

PAGRUS, Cuvier.

- P. unicolor*, Cuv. et Val., Poissons VI, p. 162, 1830.
 Günther Cat. I, p. 468; Macleay Cat. 255.
 Loc.—Port Phillip, and off south coast.
 Vernacular name—*Schnapper or Snapper*.

CHRYSOPHRYS, Cuvier.

- C. australis*, Günther Cat. I, p. 494, 1859.
 Macleay Cat. 259.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 4; Günther Cat.
 pl. 28.
 Loc.—*Passim*.
 Vernacular name—*Bream*.

(HAPLODACTYLUS, Cuv. et Val.)

- (*H. meandratus*, Solander (Richardson), T.Z.S. III, p. 83, 1849.)
Macleay Cat. Sup. 1161.
Loc.—Hobson's Bay, Klünzinger, Archiv. f. Naturg. xxxviii.

FAMILY CIRRHITIDÆ.

CHIRONEMUS, Cuv. et Val.

- C. marmoratus*, Günther Cat. II, p. 76, 1860.
Macleay Cat. 263.
Loc.—Victorian seas, Castelnau, P.Z.S. Vict. I, p. 73.
Vernacular name.—*Kelp-fish*.

CHILODACTYLUS, Cuvier.

- C. macropterus*, Richardson, P.Z.S., p. 62, 1850.
Günther Cat. II, p. 78; Macleay Cat. 267.
Syn.—*C. aspersus*, Richardson. (Johnston, Report of Royal Commission on Fisheries of Tasmania, 1883.)
Loc.—Off South Coast, Castelnau, P.Z.S. Vict. I, p. 74.
- C. nigricans*, Richardson, P.Z.S., p. 63, 1850.
Günther Cat. II, p. 79; Macleay Cat. 269.
Loc.—*Passim*.
Vernacular name.—*Butter-fish*
- C. carponemus*, Cuv. et Val., V, p. 362, 1830.
Günther Cat. II, p. 78; Macleay Cat. 266.
Figured, M'Coy, Prodr. Zool. Vict., pl. 173, 174.
Loc.—Port Phillip Heads, rare.
- C. gibbosus*, Richardson, T.Z.S. III, p. 102, 1849.
Günther Cat. II, p. 84; Macleay Cat. 271.
Figured, P.Z.S., 1859, pl. 2.
Loc.—Victorian, Castelnau, P.Z.S. Vict. I, p. 75.
Vernacular name.—*Maggie Perch*.
- C. spectabilis*, Hutton, Fishes of N.Z., p. 8, 1872.
Macleay Cat. 272.
Loc.—Port Phillip, Macleay, l.c.
- (*C. nebulosus*, Klünzinger, Archiv. f. Naturg., xxxviii, 1872.)
Macleay Cat. Sup. 1164.
Loc.—Queenscliff, Port Phillip, Klünzinger, l.c.

LATRIS, Richardson.

- L. hecateia*, Richardson, P.Z.S., p. 99, 1839.
 Günther Cat. II, p. 86; Macleay Cat. 276.
 Figured, T.Z.S. III, pl. 6.
 Loc.—Bass' Straits, occasionally in Hobson's Bay,
 Castelnau, P.Z.S. Vict. I, p. 77.
 Vernacular name—*Hobart Town Trumpeter*.
- L. forsteri*, Castelnau, P.Z.S. Vict. I, p. 77, 1872.
 Macleay Cat. 278.
 Loc.—“Said to be common on Gippsland Coast,”
 Castelnau, l.c.
 Vernacular name—*Bastard Trumpeter*.
- (*L. bilineata*, Castelnau, P.Z.S. Vict. I, p. 79, 1872.)
 Macleay Cat. 279.
 Loc.—One specimen from Western Port, Castelnau, l.c.
- (*L. inornata*, Castelnau, P.Z.S. Vict. I, p. 79, 1872.)
 Macleay Cat. 280.
 Loc.—One specimen from Western Port, Castelnau, l.c.

(LACEPEDIA, Castelnau.)

- (*L. cataphracta*, Castelnau, P.Z.S. Vict. II, p. 43, 1873.)
 Macleay Cat. 281.
 Loc.—One specimen stuffed, Castelnau, l.c.

FAMILY SCORPÆNIDÆ.

SEBASTES, Cuv. et Val.

- S. percoides*, Richardson, Voy. Erebus and Terror, p. 23, 1846.
 Günther Cat. II, p. 101; Macleay Cat. 282.
 Figured, Voy. Erebus and Terror, pl. 15; M'Coy, Prodr.
 Zool. Vict., pl. 33.
 Loc.—Port Phillip, Macleay, l.c.
 Vernacular name—*Gurnet*.
- S. allporti*, Castelnau, P.Z.S. Vict. II, p. 40, 1873.
 Macleay Cat. 283.
 Loc.—Victorian seas, Castelnau, l.c.

SCORPÆNA, Artedi.

- S. cruenta*, Solander, A.M.N.H. IX, p. 217, 1842.
 Günther Cat. II, p. 112; Macleay Cat. 284.
 Syn.—*S. militaris*, Richardson, Voy. Erebus and Terror,
 p. 22.
 Loc.—Port Phillip, Macleay, l.c.
 Vernacular name—*Red Rock Cod*.

CENTROPOGON, Günther.

C. scorpenoides, Guichenot, Mém. Soc. Imp. des Sci. Nat.,
Cherbourg.

Macleay Cat. 298.

Syn.—*C. australis*, Castelnau, P.Z.S. Vict. I, p. 81.

Vernacular name—*Gurnet*.

PENTAROGÉ, Günther.

P. marmorata, Cuv. et Val., Poissons IV, p. 416, 1829.

Günther Cat. II, p. 132; Macleay Cat. 300.

FAMILY TEUTHIDÆ.

TEUTHIS, Linnæus.

T. javus, L, Syst. Nat. I, p. 507.

Günther Cat. III, p. 315; Macleay Cat. 306.

Loc.—Hobson's Bay, Macleay, l.c.

DIVISION II.—ACANTHOPTERYGII BERYCIFORMES.

None recorded.

DIVISION III.—ACANTHOPTERYGII KURTIFORMES.

None recorded.

DIVISION IV.—ACANTHOPTERYGII POLYNEMIFORMES.

None recorded.

DIVISION V.—ACANTHOPTERYGII SCIENIFORMES.

FAMILY SCIENIDÆ.

SCIENA, Cuv.

S. antarctica, Castelnau, P.Z.S. Vict. I, p. 100, 1872.

Macleay Cat. 329.

Syn.—Probably, *Corvina antarctica*, Steindachner,
Sitzungsber. ak. Wiss. Wien, 1866.

Loc.—Occasional visitor in Bass's Straits, Castelnau, l.c.

Vernacular name—*King-fish*.

DIVISION VI.—ACANTHOPTERYGII XIPHIIFORMES.

None recorded.

DIVISION VII.—ACANTHOPTERYGII TRICHIURIFORMES.

FAMILY TRICHIURIDÆ.

THYRSITES, Cuv. et Val.

T. atun, Cuv. et Val., Poissons VIII, p. 196, 1831.

Günther Cat. II, p. 350; Macleay Cat. 336.

Syn.—*Scomber atun*, Vetensk. Acad. xii.; *T. altivelis*,
Richardson, P.Z.S., 1839.

Figured, Cuv. et Val., Poissons, pl. 219 ; M'Coy, Prodr. Zool. Vict., pl. 44.

Loc.—Off south coast ; Bass's Straits.

Vernacular name—*Barracouta* or *Barracoota*.

DIVISION VIII.—ACANTHOPTERYGII COTTOSCOMBRIFORMES.

FAMILY CARANGIDÆ.

TRACHURUS, Cuv. et Val.

T. trachurus, Cuv. et Val., Poissons IX, p. 11, 1833.

Günther Cat. II, p. 419 ; Macleay Cat. 347.

Syn.—*Caranx declivis*, Jenyns, Zool. Beagle Fish, p. 68, pl. 14 ; *Scomber trachurus*, Lin. Syst. Nat. i., p. 494.

Figured, Cuv. et Val., pl. 246 ; M'Coy, Prodr. Zool. Vict., pl. 18.

Loc.—Port Phillip, M'Coy.

Vernacular name—*Horse Mackerel*.

CARANX, Cuv. et Val.

C. georgianus, Cuv. et Val., Poissons IX, p. 85, 1833.

Günther Cat. II, p. 440 ; Macleay Cat. 350.

Figured, Voy. Erebus and Terror, pl. 58.

Loc.—Port Phillip, and off south coast.

Vernacular name—*Silver Trevally*.

SERIOLA, Cuvier.

S. lalandi, Cuv. et Val., Poissons V, p. 208, 1830.

Günther Cat. 463 ; Macleay Cat. 365, 368.

Syn.—*S. grandis*, Castelnau, P.Z.S. Vict. I, p. 115.

Figured, M'Coy, Prodr. Zool. Vict., pl. 172.

Vernacular name—*Yellow Tail*, or *King-fish*.

NEPTONEMUS, Günther.

N. travale, Castelnau, P.Z.S. Vict. I, p. 118, 1872.

Macleay Cat. 372.

Vernacular name—*Trevally*.

TEMNODON, Cuv. et Val.

T. saltator, Bl. syst. Ichthyol (Schneider), p. 35, 1801.

Günther Cat. II, p. 479 ; Macleay Cat. 375.

Loc.—Queenscliff.

Vernacular name—*Skipjack*.

(PAREQUULA, Steindachner.) (?)

(*P. bicornis*, Steindachner, Sitzungsber. ak. Wien, 1867.)

Macleay Cat. Sup., p. 25.

Loc.—Hobson's Bay. Requires confirmation.

FAMILY CYTTIDÆ.

ZEUS, Cuvier.

Z. australis, Richardson, Voy. Erebus and Terror, p. 136, 1846.

Macleay Cat. 386.

Syn.—Günther considers = *Z. faber*, L., Cat. II, p. 393.

Vernacular name—*Southern John Dorey*.

CYTTUS, Günther.

C. australis, Richardson sp., Voy. Erebus and Terror, p. 137, 1846.

Günther Cat. II, p. 396; Macleay Cat. 387.

Syn.—*Capros australis*, Richardson, l.c.

Loc.—Hobson's Bay, M'Coy, Rep. Intercol. Exh., 1866.

Vernacular name—*Bastard Dorey*.

FAMILY CORYPHÆNIDÆ.

BRAMA, Risso.

B. raii, Bloch, Syst. Ichth. (Schneider), p. 99, 1801.

Günther Cat. II, p. 408; Macleay Cat. 389.

Figured, M'Coy, Prodr. Zool. Vict., pl. 133.

Loc.—Portland, 1884, M'Coy, l.c.

Vernacular name—*Ray's Sea Bream*.

FAMILY SCOMBRIDÆ.

SCOMBER, Artedi.

S. australasicus, Cuv. et Val., Poissons VIII, p. 36, 1831.

Günther Cat. II, p. 359; Macleay Cat. 392.

Syn.—*S. pneumatophorus*, De la Roche (M'Coy).

Figured, M'Coy, Prodr. Zool. Vict., pl. 28.

Loc.—Rarely in Hobson's Bay, in considerable numbers when it does appear; M'Coy, l.c.

Vernacular name—*Southern Mackerel*.

(*S. antarcticus*, Castelnau, P.Z.S. Vict. I, p. 106, 1872.)

Macleay Cat. 393.

Loc.—One specimen seen in Melbourne market, Castelnau.

(*S. janésaba*, Bleeker, Japan, p. 406, 1858.)

Günther Cat. II, p. 359; Macleay Cat. Sup. 1186.

Loc.—Hobson's Bay, Klünzinger.

(*S. tapeino-cephalus*, Bleeker, Japan, p. 407, 1858.)

Günther Cat. II, p. 361; Macleay Cat. Sup. 1188.

Loc.—Hobson's Bay, Klünzinger.

THYNNUS, Cuv. et Val.

- T. m'coyi*, Castelnau, P.Z.S. Vict. I, p. 104, 1872.
 Macleay Cat. 396.
 Syn.—*T. thynnus*, L. (M'Coy).
 Figured, M'Coy, Prodr. Zool. Vict., pl. 44.
 Loc.—Hobson's Bay, Portland, Bass Straits, Queenscliff,
 M'Coy, l.c.
 Vernacular name—*Tunny*.

(PELAMYS, Cuv. et Val.)

- (*P. schlegelii*, M'Coy, Prodr. Zool. Vict., 1888.)
 Syn.—Perhaps, *P. orientalis*, Schlegel (M'Coy).
 Figured, M'Coy, Prodr. Zool. Vict., pl. 155.
 Loc.—Only one specimen caught in Port Phillip Bay,
 1877, M'Coy, l.c.

(CYBIUM, Cuv.)

- (*C. commersonii*, Lacép. Hist. des Poissons II, p. 600, 1800.)
 Günther Cat. II, p. 370; Macleay Cat. 400.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 154.
 Loc.—Only one specimen caught near Queenscliff, 1887,
 M'Coy, l.c.
 Vernacular name—*Commerson's Mackerel*.

FAMILY TRACHINIDÆ.

KATHETOSTOMA, Günther.

- K. læve*, Bloch, Syst. Ichth. (Schneider), p. 47, 1801.
 Günther Cat. II, p. 231; Macleay Cat. 406.
 Figured, Bloch, l.c., pl. 8.
 Vernacular name—*Stone Lifter*.

(PSEUDAPHRITIS, Castelnau.)

- (*P. bassii*, Castelnau, P.Z.S. Vict. I, p. 92, 1872.)
 Macleay Cat. 411.
 Loc.—One specimen taken in Bass's Straits, Castelnau.

SILLAGO, Cuv.

- S. punctata*, Cuv. et Val., Poissons III, p. 413, 1829.
 Günther Cat. II, p. 245; Macleay Cat. 413.
 Figured, Voyage Astrolabe, pl. 1.
 Loc.—*Passim*.
 Vernacular name—*Melbourne Whiting*.
 (*S. maculata*, Quoy et Gaim., Exp. Freycinet Zool., p. 261,
 1834.)
 Günther Cat. II, p. 245; Macleay Cat. 412.
 Figured, Q. et G., l.c., pl. 53.
 Loc.—Seen only once, Castelnau, P.Z.S. Vict. I, p. 94.

(BOVICHTHYS, Cuv. et Val.)

(*B. variegatus*, Richardson, Voy. Erebus and Terror, p. 56, 1846.)

Günther Cat. II, p. 250; Macleay Cat. 419.

Figured, Voy. Erebus and Terror, pl. 34.

Loc.—One dried specimen from Hobson's Bay, Castelnau, P.Z.S. Vict. II, p. 45.

FAMILY PEDICULATI.

CHIRONECTES, Cuvier.

C. bifurcatus, M'Coy, Prodr. Zool. Vict., Decade 13, 1886.

Figured, M'Coy, Prodr. Zool. Vict., pl. 123.

Loc.—Port Phillip, M'Coy, l.c.

FAMILY COTTINA.

PLATYCEPHALUS, Bl.

(*P. speculator*, Klünzinger, Archiv. f. Naturg., 1872.)

Macleay Cat. Sup. 1197.

Loc.—Hobson's Bay, Klünzinger.

P. bassensis, Cuv. et Val., Poissons IV, p. 247, 1829.

Günther Cat. II, p. 179; Macleay Cat. 444.

Syn.—*P. tasmanius*, Richardson, Voy. Erebus and Terror, p. 23.

Figured, Voy. Erebus and Terror, pl. 18.

Loc.—Port Phillip.

Vernacular name—*Flathead*.

P. fuscus, Cuv. et Val., Poissons IV, p. 241, 1829.

Macleay Cat. 445.

Figured, Voy. Astrolabe, pl. 10.

Loc.—Port Phillip.

Vernacular name—*Grass Flathead*.

P. lævigatus, Cuv. et Val., Poissons IV, p. 243, 1829.

Günther Cat. II, p. 179; Macleay Cat. 446.

Loc.—Port Phillip, Western Port.

Vernacular name—*Rock Flathead*.

(*P. proximus*, Castelnau, P.Z.S. Vict. I, p. 85, 1872.)

Macleay Cat. 447.

Loc.—Only seen once in Melbourne market, Castelnau, l.c.

P. richardsoni, Castelnau, P.Z.S. Vict. I, p. 82, 1872.

Macleay Cat. 448.

P. grandis, Castelnau sp., P.Z.S. Vict. I, p. 87, 1872.

Macleay Cat. 457.

Syn.—*Neoplatycephalus grandis*, Castelnau, l.c.

LEPIDOTRIGLA, Günther.

- (*L. phalena*, Cuv. et Val., Poissons IV, p. 83, 1829.)
 Günther Cat. II, p. 197; Macleay Cat. 459.
 Loc.—Melbourne, Günther (quoted by Macleay, l.c.)
- (*L. sphynx*, Cuv. et Val., Poissons IV, p. 83, 1829.)
 Günther Cat. II, p. 197; Macleay Cat. 460.
 Loc.—One specimen, Castelnau, P.Z.S. Vict. I, p. 89.
- L. vanessa*, Richardson, Trans. Z.S. III, 1849.
 Günther Cat. II, p. 197; Macleay Cat. 461.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 5.
 Loc.—Hobson's Bay.
 Vernacular name—*Butterfly Gurnard*.

TRIGLA, Artedi.

- T. kumu*, Less. and Garn., Voy. de la Coquille, Poissons, pl. 19,
 1826-30.
 Günther Cat. II, p. 204; Macleay Cat. 463.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 6.
 Loc.—Hobson's Bay, M'Coy, l.c.
 Vernacular name—*Kumu Gurnard*.
- T. polygonmata*, Richardson, T.Z.S. III, p. 96, 1839.
 Günther Cat. II, p. 204; Macleay Cat. 464.
 Figured, Richardson, T.Z.S. III, pl. 5.
 Vernacular name—*Flying Gurnard*.

DIVISION IX.—ACANTHOPTERYGII GOBIIFORMES.

FAMILY GOBIIDÆ.

GOBIUS, Artedi.

- (*G. bifrenatus*, Kner., Voy. Novara, Fishes, p. 177, 1868.)
 Macleay Cat. 476.
 Syn.—*G. bassensis*, Castelnau, P.Z.S. Vict. I, p. 123.
 Figured, Voy. Novara, pl. 7.
 Loc.—Only seen once, Castelnau, l.c.
- G. castelnau*, Macleay Cat. 477, 1881.
 Loc.—Hobson's Bay, Castelnau, l.c., p. 124.
- (*G. pictus*, Castelnau, P.Z.S. Vict. I, p. 124, 1872.)
 Macleay Cat. 479.
 Loc.—One specimen, Castelnau, l.c., p. 124.
- G. pulchellus*, Castelnau, P.Z.S. Vict. I, p. 125, 1872.
 Macleay Cat. 480.
 Loc.—Western Port, Castelnau, l.c.
- (*G. caudatus*, Castelnau, P.Z.S. Vict. II, p. 47, 1873.)
 Macleay Cat. 481.
 Loc.—Apparently only one specimen. See Castelnau, l.c.

- (*G. nebulo-punctatus*, Cuv. et Val., Poissons XII, p. 58, 1837.)
 Günther Cat. III, p. 26; Macleay Cat. Sup. 1202.
 Loc.—King George's Sound and Victoria, Klünzinger.

ELEOTRIS, Gronov.

- E. nudiceps*, Castelnau, P.Z.S. Vict. I, p. 126, 1872.
 Macleay Cat. 520.
 Loc.—Very common in Lower Yarra, Castelnau, l.c.
 Vernacular name—*Big-head*, Castelnau.
- (*E. cyprinoides*, Cuv. et Val., Poissons XII, p. 248, 1837.)
 Günther Cat. III, p. 118; Macleay Cat. Sup. 1206.
 Figured, Klünzinger, Sitzb. k. Ak. Wiss., Wien., 1879,
 pl. 5.
 Loc.—Murray River, Klünzinger, l.c.

CALLIONYMUS, L.

- (*C. calauropomus*, Richardson, Voy. Erebus and Terror,
 p. 10, 1846.)
 Günther Cat. III, p. 147; Macleay Cat. 540.
 Figured, Voy. Erebus and Terror, pl. 7.
 Loc.—One specimen from Hobson's Bay, Castelnau,
 P.Z.S. Vict. II, p. 49.
- C. papilio*, Günther, A.M.N.H. XIV., p. 197, 1864.
 Macleay Cat. 541.
 Syn.—*C. ocellifer*, Castelnau, P.Z.S. Vict. II, p. 49.
 Loc.—Hobson's Bay, Castelnau.

DIVISION X.—ACANTHOPTERYGII BLENNIIFORMES.

FAMILY BLENNIIDÆ.

(SALARIAS, Cuv. et Val.)

- (*S. mulleri*, Klünzinger, Sitzb. d. k. Ak. Wiss., Wien., p. 388,
 1879.)
 Macleay Cat. Sup. 1215.
 Loc.—Hobson's Bay, Klünzinger, l.c.

CLINUS, Cuv.

- C. despiciellatus*, Richardson, Zool. Journ., p. 90, 1839.
 Günther Cat. III, p. 271; Macleay Cat. 572.
 Figured, T.Z.S. III, pl. 6.
 Loc.—Recorded as Victorian by Castelnau, P.Z.S. Vict.
 I, p. 129.
- (*C. marmoratus*, Klünzinger, Archiv. f. Naturg., 1872.)
 Macleay Cat. Sup. 1217.
 Loc.—Port Phillip, Klünzinger, l.c.

CRISTICEPS, Cuv. et Val.

- C. howitti*, Castelnau, P.Z.S. Vict. II, p. 48, 1873.
 Macleay Cat. 582.
 Loc.—Western Port, Castelnau, l.c.
- C. robustus*, Günther, A.M.N.H. XX, p. 62, 1867.
 Macleay Cat. 583.
 Loc.—Melbourne, Günther, l.c.
- C. multifenestratus*, Castelnau, P.Z.S. Vict. I, p. 131, 1872 ;
 II, p. 48, 1873.
 Macleay Cat. 586.
- (*C. amœnus*, Castelnau, P.Z.S. Vict. II, p. 48, 1873.)
 Macleay Cat. 587.
 Loc.—One specimen, Victorian, Castelnau, l.c.
- (*C. forsteri*, Castelnau, P.Z.S. Vict. I, p. 132, 1872.)
 Macleay Cat. 588.
 Loc.—One specimen, Melbourne, Castelnau, l.c.
- (*C. tristis*, Klünzinger, Archiv. f. Naturg., 1872.)
 Macleay Cat. Sup. 1218.
 Loc.—Murray R., Klünzinger, l.c.

DIVISION XI.—MUGILIFORMES.

FAMILY SPHYRÉNIDÆ.

SPHYRÆNA, Artedi.

- S. novæ-hollandiæ*, Günther Cat. II, p. 335, 1860.
 Macleay Cat. 603.
 Loc.—*Passim*.
 Vernacular name—*Pike*.

LANIOPERCA, Günther.

- L. mordax*, Günther, A.M.N.H., X, p. 183, 1872.
 Macleay Cat. 608.
 Syn. — *Dinolestes mülleri*, Klünzinger ; *Neosphyrena*
multiradiata, Castelnau.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 115.
 Loc.—Port Phillip.

FAMILY ATHERINIDÆ.

ATHERINICHTHYS, Bleeker.

- A. modesta*, Castelnau, P.Z.S. Vict. I, p. 136, 1872.
 Macleay Cat. 620.
 Loc.—Hobson's Bay and Lower Yarra, Castelnau.
- A. picta*, Castelnau, P.Z.S. Vict. I, p. 137, 1872.
 Macleay Cat. 622.
 Loc.—Capt. Synnot's Dock, Lower Yarra, Castelnau.
- A. cephalotes*, Castelnau, P.Z.S. Vict. I, p. 137, 1872.
 Macleay Cat. 623.
 Loc.—Hobson's Bay, Castelnau.

(ATHERINOSOMA, Castelnau.)

- (*A. vorax*, Castelnau, P.Z.S. Vict. I, p. 138, 1872.)
Macleay Cat. 627.
Loc.—One specimen from Cape Schanck, Castelnau, l.c.

FAMILY MUGILIDÆ.

MUGIL, Artedi.

- (*M. peronii*, Cuv. et Val., Poissons II, p. 138, 1836.)
Macleay Cat. 635.
Loc.—One specimen from Western Port, Castelnau,
P.Z.S. Vict. II, p. 151.
- M. grandis*, Castelnau, P.L.S. N.S.W. III, p. 386, 1879.
Macleay Cat. 629.
Loc.—*Passim*.
Vernacular name—*Sand Mullet*.
- (*M. gelatinosus*, Klünzinger, Archiv. f. Naturg., 1872.)
Macleay Cat. Sup. 1225.
Loc.—Hobson's Bay, Klünzinger, l.c.

AGONOSTOMA, Günther.

- A. diemensis*, Richardson, Zool. Trans. III, p. 123, 1849.
Günther Cat. III, p. 465 ; Macleay Cat. 641.
Syn.—*A. forsteri*, Bleeker.
Loc.—*Passim*.
Vernacular name—*Mullet*.
- A. lacustris*, Castelnau, P.Z.S. Vict. I, p. 142, 1872.
Macleay Cat. 642.
Loc.—Gippsland Lakes.

MYXUS, Günther.

- M. elongatus*, Günther, P.L.S., N.S.W. IV, p. 426, 1879.
Günther Cat. III, p. 466 ; Macleay Cat. 643.
Loc.—Hobson's Bay, Günther, l.c.

DIVISION XII.—ACANTHOPTERYGII GASTEROSTEIFORMES.

None recorded.

DIVISION XIII.—ACANTHOPTERYGII CENTRISCIFORMES.

None recorded.

DIVISION XIV.—ACANTHOPTERYGII GOBIESOCIFORMES.

None recorded.

DIVISION XV.—ACANTHOPTERYGII CHANNIFORMES.

None recorded.

DIVISION^s XVI.—ACANTHOPTERYGII TENIIFORMES.

FAMILY TRACHYPTERIDÆ.

(REGALECUS, Brünn.)

(*R. banksii*, Cuv. et Val., Poissons X, p. 365, 1835.)

Günther Cat. III, p. 309.

Figured, M'Coy, Prodr. Zool., pl. 145.

Loc.—Bass' Straits, one specimen, M'Coy, l.c.

Vernacular name—*Oar Fish*; probably *Sea Serpent*,
M'Coy.

TRACHYPTERUS, Gouan.

T. tenia, Bl. Schn., p. 480, 1801.

Günther Cat. III, p. 302.

Figured, M'Coy, Prodr. Zool. Vict., pl. 122.

Loc.—Portland, M'Coy.

DIVISION XVII.—ACANTHOPTERYGII NOTACANTHIFORMES.

None recorded.

ORDER ACANTHOPTERYGII PHARYNGOGNATHI.

FAMILY POMACENTRIDÆ.

GLYPHISODON, Cuvier.

G. victorice, Günther, A.M.N.H. II, p. 116, 1862 (XI, 1873,
p. 115).

Macleay Cat. 676.

Vernacular name—*Rock Perch*.

FAMILY LABRIDÆ.

LABRICHTHYS, Bleeker.

Vernacular name.—*Wrasses, or Parrot-fish*.

(*L. psittacula*, Richardson, P.Z.S., p. 26, 1840.)

Günther Cat. IV, p. 114; Macleay Cat. 696.

Figured, Voy. Erebus and Terror, pl. 56; Günther Cat.
pl. 59.

Loc.—Only one specimen, Castelnau, P.Z.S. Vict. II,
p. 52.

L. latidavius, Richardson, Voy. Erebus and Terror, p. 128,
1846.

Günther Cat IV, p. 115; Macleay Cat. 698.

Figured, M'Coy, Prodr. Zool. Vict., pl. 163.

Loc.—Hobson's Bay, M'Coy, l.c.

- L. bleekeri*, Castelnau, P.Z.S. Vict. I, p. 148, 1872.
 Macleay Cat. 705.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 134.
 Loc.—Port Phillip.
- L. richardsoni*, Castelnau, P.Z.S. Vict. I, p. 150, 1872.
 Macleay Cat. 706.
 Loc.—Port Phillip.
- L. ephippium*, Günther, A.M.N.H. XI, p. 116, 1863.
 Macleay Cat. 707.
 Syn.—*L. vestita*, Castelnau, P.Z.S. Vict. I, p. 151, 1872.
 Loc.—Port Phillip.
- (*L. cuvieri*, Castelnau, P.Z.S. Vict. II, p. 53, 1873.)
 Macleay Cat. 708.
 Loc.—One specimen, Phillip Island, Castelnau, l.c.

(HETEROSCARUS, Castelnau.)

- (*H. macleayi*, M'Coy, Prodr. Zool. Vict., Decade 17, 1888.)
 Figured, M'Coy, Prodr. Zool. Vict., pl. 164.
 Loc.—One specimen from Portland, M'Coy, l.c.

ODAX, Cuv. et Val.

- O. richardsoni*, Günther Cat IV, p. 241, 1862.
 Günther Cat. IV, p. 241 ; Macleay Cat. 753.
 Loc.—*Passim*.
 Vernacular name—*Stranger*.
- O. obscurus*, Castelnau, P.Z.S. Vict. I, p. 154, 1872.
 Macleay Cat. 756.

OLISTHEROPS, Richardson.

- O. cyanomelas*, Richardson, A.M.N.H., p. 291, 1851.
 Günther Cat. IV, p. 243 ; Macleay Cat. 760.

ORDER ANACANTHINI.

FAMILY GADOPSIDÆ.

GADOPSIS, Richardson.

- G. marmoratus*, Richardson, Voy. Erebus and Terror, p. 122,
 1846.
 Gunther, Cat. 4, p. 318 ; Macleay Cat. 763.
 Figured, Voy. Erebus and Terror, pl. 59.
 Loc.—*Passim*, Victorian streams, especially south of
 Dividing Range.
 Vernacular name—*Black-fish*.

FAMILY GADIDÆ.

LOTELLA, Kaup.

- L. callarias*, Günther, A.M.N.H., p. 116, 1863.
 Macleay Cat. 766.
 Figured M'Coy, Prodr. Zool. Vict., pl. 19.
 Loc.—Port Phillip, M'Coy, l.c.
 Vernacular name—Small-scaled *Rock Cod*.

PSEUDOPHYCIS, Günther.

- P. barbatus*, Günther, A.M.N.H., p. 116, 1863.
 Macleay Cat. 769.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 20.
 Loc.—*Passim*.
 Vernacular name—*Rock Cod*.

(PHYSICULUS, Kaup.)

- (*P. palmatus*, Klünzinger, Archiv. f. Naturg., xxxviii, 1872.)
 Macleay Cat. Sup. 1244.
 Loc.—Port Phillip, Klünzinger.

FAMILY OPHIDIIDÆ.

GENYPTERUS, Philippi.

- G. australis*, Castelnau, P.Z.S. Vict. I, p. 164, 1872.
 Macleay Cat. 771.
 Syn.—*G. tigrinus*, Klünzinger, Archiv. f. Naturg, 1872.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 27.
 Loc.—*Passim*.
 Vernacular name—*Rockling*.

FAMILY PLEURONECTIDÆ.

(PSEUDORHOMBUS, Bleeker.)

- (*P. mulleri*, Klünzinger, Archiv. f. Naturg., xxxviii, 1872.)
 Macleay Cat. Sup. 1247.
 Loc.—Hobson's Bay, Klünzinger, l.c.

RHOMBOSOLEA, Günther.

- R. flesoides*, Günther, A.M.N.H. II., p. 117, 1863.
 Macleay Cat. 788.
 Loc.—Port Phillip, Günther.
R. bassensis, Castelnau, P.Z.S. Vict. I., p. 167, 1872.
 Macleay Cat. 789.
 Loc.—*Passim*.
 Vernacular name—*Sole*.
R. victoriae, Castelnau sp., P.Z.S. Vict. I., p. 168, 1872.
 Macleay Cat. 790.
 Loc.—*Passim*.
 Vernacular name—*Flounder*.

NOTE.—Prof. M'Coy considers *R. victoriae*, Castelnau = *R. flesoides*, Günther.

ORDER IV.—PHYSOSTOMI.

FAMILY SILURIDÆ.

COPIDOGLANIS, Günther.

- C. tandanus*, Mitchell Exp. I, p. 95, 2nd ed., 1839.
 Günther Cat. V, p. 26; Macleay Cat. 806.
 Figured, Mitchell Exp., pl. 6.
 Loc.—Murray R. and tributaries.
 Vernacular name—*Murray Cat.fish*.

FAMILY HAPLOCHITONIDÆ.

PROTOTROCTES, Günther.

- P. marcena*, Günther Cat. V, p. 382, 1864.
 Macleay Cat. 824.
 Loc.—Southern rivers of Victoria, formerly in Yarra.
 Vernacular name—*Yarra Herring*.

FAMILY SCOPELIDÆ.

AULOPUS, Cuv.

- A. purpurissatus*, Richardson, Icon. Pisc., p. 6, 1843.
 Günther Cat. V, p. 403; Macleay Cat. 832.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 54, 55.
 Loc.—Hobson's Bay, M'Coy, l.c.
 Vernacular name—*Sergeant Baker* (at Sydney).

FAMILY GALAXIDÆ.

GALAXIAS, Cuv.

- G. attenuatus*, Jenyns, Zool. Beagle, Fishes, p. 121, 1842.
 Günther Cat. VI, p. 210; Macleay Cat. 843.
 Figured, Zool. Beagle, pl. 22.
 Syn.—*G. scriba*, Richardson, Voy. Erebus and Terror,
 p. 75; *G. maculatus*, Richardson, Voy. Erebus
 and Terror, p. 76.
 Loc.—Very common in Lower Yarra, Castelnau, P.Z.S.
 Vict. I, p. 177.
 Vernacular name—*Yarra Gudgeon*.
- G. ocellatus*, M'Coy, Internat. Exch. Essays, p. 14, 1866-7.
 Macleay Cat. 852.
 Loc.—R. Yarra.
 Vernacular name—*Yarra Trout*.
- G. cylindricus*, Castelnau, P.Z.S. Vict. I, p. 177, 1872.
 Macleay Cat. 853.
 Loc.—R. Yarra, Castelnau, l.c.
- G. delicatulus*, Castelnau, P.Z.S. Vict. I, p. 178, 1872.
 Macleay Cat. 854.
 Loc.—R. Yarra, Castelnau, l.c.

- G. amarus*, Castelnau, P.Z.S. Vict. I, p. 178, 1872.
 Macleay Cat. 855.
 Loc.—R. Yarra, Castelnau, l.c.
- (*G. versicolor*, Castelnau, P.Z.S. Vict. I, p. 176, 1872.)
 Macleay Cat. 856.
 Loc.—One specimen from marsh near St. Kilda,
 Castelnau, l.c.
- G. ornatus*, Castelnau, P.Z.S. Vict. II, p. 153, 1873.
 Macleay Cat. 857.
 Loc.—Cardinia Creek, Castelnau.
- (*G. rostratus*, Klünzinger, Archiv. f. Naturg., p. 41, 1872.)
 Macleay Cat. Sup. 1265.
 Loc.—Murray R., Klünzinger, l.c.
- (*G. obtusus*, Klünzinger, Archiv. f. Naturg., p. 41, 1872.)
 Loc.—Yarra Lagoon, Klünzinger, l.c.

FAMILY SCOMBRESOCIDÆ.

SCOMBRESOX, Lacép.

- S. forsteri*, Cuv. et Val. XVIII, p. 481, 1846.
 Günther Cat. VI, p. 258 ; Macleay Cat. 866.
 Syn.—*S. saurus* (Bloch sp.), var. *forsteri* (Cuv. et Val.),
 according to M'Coy.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 135.

HEMIRAMPHUS, Cuvier.

- H. intermedius*, Cant., A.M.N.H. IX, p. 485, 1842.
 Günther Cat. VI, p. 260 ; Macleay Cat. 867.
 Syn.—*H. melanocheir*, Cuv. et Val.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 135.
 Vernacular name—*Gar-fish*.

FAMILY CYPRINIDÆ.

NEOCARASSIUS, Castelnau.

- N. ventricosus*, Castelnau, P.Z.S. Vict. I, p. 237, 1872.
 Macleay Cat. 881.
 Loc.—Saltwater R., Castelnau, l.c.

FAMILY GONORHYNCIDÆ.

GONORHYNCUS, Gronov.

- G. greyi*, Richardson, Voy. Erebus and Terror, p. 44, 1846.
 Günther Cat. VII., p. 373 ; Macleay Cat. 883.
 Syn.—*G. brevis*, Kner. Voy. Novara, p. 342.
 Figured, Voy. Novara, pl. 16.
 Loc.—*Passim*.
 Vernacular name—*Sand-eel*.

FAMILY CLUPEIDÆ.

ENGRAULIS, Cuv. et Val.

E. antarcticus, Castelnau, P.Z.S. Vict. I, p. 186, 1872.

Macleay Cat. 885.

Syn.—*E. encrasicholus*, var. *antipodum*, Günther.

Loc.—*Passim*.

Vernacular name—*White-bait*.

(*E. heterolobus*, Rüpp.)

Günther Cat. VII, p. 392; Macleay Cat. Sup. 1272.

Loc.—Hobson's Bay, Klünzinger, Archiv. f. Natarg. 1872.

CHATOESSUS, Cuv. et Val.

C. richardsoni, Castelnau, P.Z.S. Vict. II, p. 144, 1873.

Macleay Cat. 888.

Loc.—Murray R., Castelnau.

CLUPEA, Cuvier.

C. sagax, Jenyns, Zool. Beagle, p. 134, 1842.

Günther Cat. VII, p. 443; Macleay Cat. 890.

Syn.—*Alosa melanosticta*, Cuv. et Val., Poissons XX, p. 444

Loc.—*Passim*.

Vernacular name—*Pilchard*.

C. vittata, Castelnau, P.L.S. N.S.W., IV, p. 379, 1879.

Macleay Cat. 896.

Vernacular name—*Smelt*, Castelnau, P.Z.S. Vict. I, p. 190.

FAMILY MURÆNIDÆ.

ANGUILLA, Cuvier.

A. reinhardtii, Steind. Sitzb. Ak. Wiss., Wien, 1867.

Günther Cat. VIII., p. 27; Macleay Cat. 910.

Loc.—From Western Port, and also, I believe, from the Mordialloc R., Castelnau, P.Z.S. Vict. I, p. 193.

Vernacular name—Confused with the common *Eel*, Castelnau, l.c.

A. australis, Richardson, Voy. Erebus and Terror, p. 112, 1846.

Günther Cat. VIII., p. 36; Macleay Cat. 911.

Figured, Voy. Erebus and Terror, pl. 45.

Loc.—Fresh waters *passim*.

Vernacular name—*Common Eel*.

CONGER, Cuvier.

C. wilsoni, Castelnau, P.Z.S. Vict. I., p. 193, 1872.

Macleay Cat. 914.

Loc.—*Passim*.

Vernacular name—*Silver Eel*.

(CONGROMURENA, Kaup.)

(*C. habenata*, Richardson, Voy. Erebus and Terror, p. 109, 1846.)

Günther Cat. VIII., p. 42 ; Macleay Cat. 916.

Figured, Voy. Erebus and Terror, pl. 50.

Loc. — One specimen seen in Melbourne market, Castelnau, P.Z.S. Vict. I., p. 195.

(MURENICHTHYS, Bleeker.)

(*M. macropterus*, Bleeker, Atlas Ichthy., p. 31.)

Günther Cat. VIII., p. 52 ; Macleay Cat. Sup. 1278.

Figured, Bleeker Atlas, pl. 7.

Loc.—Port Phillip, Klünzinger, Archiv. f. Naturg. 1872.

FAMILY PEGASIDÆ.

PEGASUS, L.

P. lancifer, Kaup, Wieg. Archiv., p. 117, 1868.

Günther Cat. VIII., p. 149 ; Macleay Cat. 946.

Loc.—Port Phillip, not uncommon.

ORDER V.—LOPHOBRANCHII.

FAMILY SYNGNATHIDÆ.

Group Syngnathina.

SYNGNATHUS, Artedi.

S. semifasciatus, Günther Cat. VIII., p. 162, 1870.

Günther Cat. VIII., p. 162 ; Macleay Cat. 947.

Syn.—*S. semistriatus*, Kaup (Macleay.)

Loc.—Port Phillip.

Vernacular name—*Pipe-fish.*

(*S. caretta*, Klünzinger, Sitzb. der K. Ak. Wiss., Wien, p. 419, 1879.)

Macleay Cat. Sup. 1281.

Loc.—Port Phillip, Klünzinger, Archiv. f. Naturg., 1872.

UROCAMBUS, Günther.

U. carinirostris, Castelnau, P.Z.S. Vict. I., p. 200, 1872.

Macleay Cat. 961.

Loc.—Port Phillip, Castelnau, l.c.

(LEPTOICHTHYS, Kaup.)

(*L. fistularius*, Kaup, Lophobr. p. 51.)

Günther Cat. VIII., p. 187 ; Macleay Cat. 962.

Loc.—Port Phillip, Klünzinger, Archiv. f. Naturg., 1872.

STIGMATOPHORA, Kaup.

- S. argus*, Richardson, T.Z.S. III., p. 183, 1849.
 Günther Cat. VIII, p. 189; Macleay Cat. 965.
 Figured, T.Z.S. III., pl. 7.
 Loc.—Sandridge (specimens in Melbourne Museum).
- S. nigra*, Kaup, Lophobr, p. 53.
 Günther Cat. VIII, p. 190; Macleay Cat. 966.
 Loc.—Sandridge (specimens in Melbourne Museum).

Group *Hippocampina*.

(GASTROTOKEUS, Kaup.)

- G. gracilis*, Klünzinger, Archiv. f. Naturg., p. 44, 1872.
 Loc.—Port Phillip, Klünzinger, l.c.

(SOLENOGNATHUS, Kaup.)

- S. spinosissimus*, Günther Cat. VIII, p. 195, 1870.
 Günther Cat. VIII, p. 195; Macleay Cat. 973.
 Loc.—Port Phillip, Klünzinger, l.c.

PHYLLOPTERYX, Kaup.

- P. foliatus*, Shaw, Gen. Zool. V, p. 456, 1803.
 Günther Cat. VIII, p. 196; Macleay Cat. 974.
 Figured, M'Coy, Prodr. Zool., pl. 65.
 Loc.—*Passim*.
 Vernacular name—*Sea-dragon*.

HIPPOCAMPUS, Leach.

- H. abdominalis*, Kaup, Lophobr., p. 17.
 Günther Cat. VIII, p. 199; Macleay Cat. 978.
 Loc.—Port Phillip, Klünzinger. J. Bracebridge Wilson
 dredged it outside the Heads, 1888.
 Vernacular name—*Sea-horse*.
- H. breviceps*, Peters, Monatsber. Ak. Wiss., Berlin, p. 710,
 1869.
 Günther Cat. VIII, p. 200; Macleay Cat. 980.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 65.
 Loc.—*Passim*.
 Vernacular name—*Short-headed Sea-horse*.
- H. nove-hollandiae*, Steind., Sitzungsber. Ak. Wiss., Wien,
 p. 474, 1866.
 Günther Cat. VIII, p. 201; Macleay Cat. 982.
 Loc.—Port Phillip, Macleay.
 Vernacular name—*Sea-horse*.
- (*H. tristis*, Castelnau, P.Z.S. Vict. I, p. 197, 1872.)
 Macleay Cat. 983.
 Loc.—One specimen from Port Phillip, Castelnau, l.c.

ORDER VI.—PLECTOGNATHI.

FAMILY SCLERODERMI.

MONACANTHUS, Cuvier (Leather Jackets).

- M. hippocrepis*, Quoy and Gaimard, Voy. Uran. Zool., p. 212, 1824.
Günther Cat. VIII, p. 246; Macleay Cat. 992.
Syn.—*Aleuterius variabilis*, Richardson, Voy. Erebus and Terror, p. 67.
Figured, Voy. Erebus and Terror, pl. 53; M'Coy, Prodr. Zool. Vict., pl. 125.
- (*M. convexirostris*, Günther Cat. VIII, p. 248, 1870.)
Günther Cat. VIII, p. 248; Macleay Cat. 994.
Loc.—Port Phillip, Hobson's Bay, Klünzinger, Archiv. f. Naturg., 1872.
- M. güntheri*, Macleay Cat. 998, 18 .
Syn.—*M. peronii*, Günther Cat. VIII, p. 249.
Figured, M'Coy, Prodr. Zool. Vict., pl. 143.
Loc.—Port Phillip Heads, Warnnāmbool, M'Coy, l.c.
- M. browni*, Richardson, sp., Voy. Erebus and Terror, 1846.
Figured, M'Coy, Prodr. Zool. Vict., pl. 124.
Loc.—Bass's Straits, M'Coy.
- (*M. maculosus*, Richardson, Voy. Erebus and Terror, p. 67, 1846.)
Macleay Cat. 1001.
Figured, Voy. Erebus and Terror, pl. 39; Hollard, Ann. Sci. Nat. Zool. 1854, pl. 14.
Loc.—Port Phillip, Klünzinger, Archiv. f. Naturg., xxxviii.
- (*M. forsteri*, Castelnau, P.Z.S. Vict. I, p. 204, 1872.)
Macleay Cat. 1005.
Loc.—One specimen, Castelnau, l.c.
- (*M. prasinus*, Castelnau, P.Z.S. Vict. I, p. 205, 1872.)
Macleay Cat. 1006.
Loc.—Only seen once, Castelnau, l.c.
- (*M. baudini*, Castelnau, P.Z.S. Vict. II, p. 55, 1873.)
Macleay Cat. 1007.
Loc.—One specimen from coast of Victoria, Castelnau, l.c.
- (*M. lesueurii*, Castelnau, P.Z.S. Vict. II, p. 56, 1873.)
Macleay Cat. 1008.
Loc.—One specimen from Western Port, Castelnau, l.c.

- M. sancti-joanni*, Castelnau, P.L.S. N.S.W. II, p. 246, 1877.
Macleay Cat. 1012.
Loc.—Hobson's Bay, Castelnau, l.c.
- (*M. granulatus*, White, Voy. N.S.W., p. 295, 1790.)
Günther Cat. VIII, p. 243; Macleay Cat. 1019.
Figured, Voy. Erebus and Terror, pl. 40.
Loc.—Port Phillip, Klünzinger, Archiv. f. Naturg.,
xxxviii.
- M. rudis*, Richardson, Voy. Erebus and Terror, p. 65, 1846.
Günther Cat. VIII, p. 244; Macleay Cat. 1020.
Loc.—Bass's Straits, Castelnau, P.Z.S. Vict. II, p. 54.
- M. trossulus*, Richardson, Voy. Erebus and Terror, p. 68, 1846.
Günther Cat. VIII, p. 234; Macleay Cat. 1025.
Loc.—Victoria, Macleay, l.c.

OSTRACION, Artedi.

- O. auritus*, Shaw, T.Z.S. III, p. 160, 1849.
Günther Cat. VIII, p. 266; Macleay Cat. 1036.
Figured, T.Z.S. III, pl. 9.
Loc.—Port Phillip, Phillip I.
- O. amœnus*, Castelnau, P.Z.S. Vict. I, p. 207, 1872.
Macleay Cat. 1039.
Loc.—Port Phillip.

FAMILY GYMNODONTES.

TETRODON, Bibr.

- T. hamiltoni*, Richardson, Voy. Erebus and Terror, p. 63,
1846.
Günther Cat. VIII, p. 280; Macleay Cat. 1045.
Figured, Voy. Erebus and Terror, pl. 39.
Loc.—Port Phillip.
Vernacular name—*Toad-fish*.
- (*T. richei*, Fréminv, Nouv. Bull. Philom. II, p. 250.)
Günther Cat. VIII, p. 285; Macleay Cat. 1046.
Figured, Bleeker, Atlas, pl. 9.
Loc.—Port Phillip, Klünzinger, Archiv. f. Naturg.,
xxxviii.
- T. hispidus*, L. Syst. Nat. I, p. 411.
Günther Cat. VIII, p. 297; Macleay Cat. 1053.

DIODON, Linnæus.

- D. spinosissimus*, Cuv. Mém. Mus., p. 134, 1818.
Günther Cat. VIII, p. 307; Macleay Cat. 1060.
Loc.—Port Phillip, Castelnau, P.Z.S. Vict. I, p. 2.

- D. blochii*, Castelnau, P.Z.S. Vict. I, p. 210, 1872.
Macleay Cat. 1062.
Loc.—Port Phillip, Castelnau, l.c.
Vernacular name—*Porcupine-fish*.

(CHILOMYCTERUS, Bibr.)

- (*C. jaculiferus*, Cuv. Mém. Mus., p. 130, 1818.)
Günther Cat. VIII, p. 313; Macleay Cat. 1063.
Loc.—One specimen from Hobson's Bay, Castelnau,
P.Z.S. Vict. I, p. 211.

ORTHAGORISCUS, Bloch., Syst. Ichthy. Ol. (Schneider), p. 510, 1801.

- O. mola*, L.
Günther Cat. VIII, p. 317; Macleay Cat. 1063.
Vernacular name—*Sun-fish*.

SUB-CLASS II.—PALÆICHTHYES.

ORDER I.—GANOIDIÆ.

None recorded.

ORDER II.—CHONDROPTERYGII.

FAMILY CHIMÆRIDÆ.

CALLORHYNCUS, Gronovius.

- C. antarcticus* Lacépède Hist. Poissons I, p. 400, 1798.
Günther Cat. VIII, p. 351; Macleay Cat. 1070.
Syn.—*C. peronii*, Dum.
C. capensis, Dum.
C. australis, Shaw and Owen.
C. tasmanius, Richardson.
Loc.—Port Phillip Heads and S. Coast.
Vernacular name—*Elephant-shark*.

FAMILY CARCHARIIDÆ.

(CARCHARIAS, Cuvier.)

- (*C. melanopterus*, Muller and Henle, p. 43, 1841.)
Günther Cat. VIII, p. 369; Macleay Cat. 1077.
Loc.—One specimen from Hobson's Bay, M'Coy.

GALEUS, Cuvier.

- G. australis*, Macleay Cat. 1079, 1880.
Figured, M'Coy, Prodr. Zool. Vict., pl. 64.
Loc.—*Passim*.
Vernacular name—*Tope*.

ZYGÆNA, Cuvier.

Z. malleus, Shaw, Nat. Misc.

Günther Cat. VIII, p. 381 ; Macleay Cat. 1080.

Figured, M'Coy, Prodr. Zool. Vict., pl. 56.

Loc.—Port Phillip.

Vernacular name—*Hammer-headed Shark*.

MUSTELUS, Cuvier.

M. antarcticus, Günther Cat. VIII, p. 387, 1870.

Macleay Cat. 1081.

Figured, M'Coy, Prodr. Zool. Vict., pl. 87.

Loc.—*Passim*.

Vernacular name—*Smooth-hound, Gummy*.

FAMILY LAMNIDÆ.

CARCHARODON, Muller and Henle.

C. rondeletii, Muller and Henle, p. 70, 1841.

Günther Cat. VIII, p. 392 ; Macleay Cat. 1083.

Figured, M'Coy, Prodr. Zool. Vict., pl. 74.

Loc.—Hobson's Bay, M'Coy, l.c.

Vernacular name—*White Shark*.

ODONTASPIS, Agassiz.

O. americanus, Mitch. sp., Phil. and Lit. Trans. New York, I,
p. 483.

Günther Cat. VIII, p. 392 ; Macleay Cat. 1084.

Syn.—*O. taurus*, Muller and Henle, p. 73.

Figured, M'Coy, Prodr. Zool. Vict., pl. 64.

Loc.—Hobson's Bay, M'Coy, l.c.

ALOPECIAS, Muller and Henle.

A. vulpes, L. Syst. Nat. Cuv. Gmelin I, p. 1496, 1788.

Günther Cat. VIII, p. 393 ; Macleay Cat. 1085.

Figured, M'Coy, Prodr. Zool. Vict., pl. 88.

Loc.—Hastings, M'Coy, l.c. ; Queenscliff, J. Brace-
bridge Wilson.

Vernacular name—*Thresher Shark*.

FAMILY NOTIDANIDÆ.

NOTIDANUS, Cuvier.

N. indicus, Cuvier, Regne Animal, 1830.

Günther Cat. VIII, p. 398 ; Macleay Cat. 1086.

Figured, M'Coy, Prodr. Zool. Vict., pl. 43.

Loc.—Hobson's Bay, M'Coy, l.c.

FAMILY SCYLLIDÆ.

PARASYLLIUM, Gill.

- P. nuchale*, M'Coy, A.M.N.H. XIII, p. 15, 1874.
 Macleay Cat. 1090.
 Figured, M'Coy, l.c., pl. 2.
 Loc.—Port Phillip, M'Coy, l.c.

CROSSORHINUS, Muller and Henle.

- C. barbatus*, L. Syst. Nat. Cuv. Gmelin, p. 1493, 1788.
 Günther Cat. VIII, p. 414; Macleay Cat. 1095.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 43.
 Loc.—Hobson's Bay, M'Coy, l.c.
 Vernacular name—*Carpet Shark, Wobbigong.*

FAMILY CESTRACIONTIDÆ.

HETERODONTUS, De Blainville.

- H. philippii*, Lacépède, Hist. des Poissons I, p. 218, 1798.
 Macleay Cat. 1097.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 113.
 Loc.—*Passim.*
 Vernacular name—*Port Jackson Shark, Pig-fish.*

FAMILY SPINACIDÆ.

ACANTHIAS, Muller and Henle.

- A. vulgaris*, L. Syst. Nat., p. 397.
 Günther Cat. VIII, p. 418; Macleay Cat. 1099.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 75.
 Loc.—Hobson's Bay, M'Coy, l.c.
 Vernacular name—*Picked Dog-fish.*

(ECHINORHINUS, De Blainville.)

- (*E. spinosus*, L. Syst. Nat. Cuv. Gmelin I, p. 1500, 1788.)
 Günther Cat. VIII, p. 428.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 144.
 Loc.—One specimen from Portland, M'Coy, l.c.

FAMILY RHINIDÆ.

RHINA, Klein.

- R. squatina*, L. Syst. Nat. I, p. 398.
 Günther Cat. VIII, p. 430; Macleay Cat. 1103.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 34.
 Loc.—Not very uncommon in Hobson's Bay and around
 our coasts, M'Coy, l.c.
 Vernacular name—*Angel Fish.*

FAMILY PRISTIOPHORIDÆ.

PRISTIOPHORUS, Muller and Henle.

- P. nudipinnis*, Günther Cat. VIII, p. 432, 1870.
 Günther Cat. VIII, p. 432; Macleay Cat. 1105
 Figured, M'Coy, Prodr. Zool. Vict., pl. 56.
 Loc.—*Passim*.
 Vernacular name—*Saw-fish*.

FAMILY SELACHIDÆ.

(CETORHINUS, De Blainville.)

- (*C. maximus*, Günner, Trondj. Selsk. Skrift, III, p. 33, 1765.)
 Günther Cat. VIII, p. 394; Macleay Cat. Sup. 1285.
 Figured, M'Coy, Prodr. Zool. Vict., pl. 104.
 Loc.—One specimen, Portland, M'Coy, l.c.
 Vernacular name—*Basking Shark*.

FAMILY RHINOBATIDÆ.

TRYGONORHINA, Muller and Henle.

- T. fasciata*, Muller and Henle, p. 124.
 Günther Cat. VIII, p. 448; Macleay Cat. 1111.
 Figured, Muller and Henle, pl. 43.
 Loc.—“Common in S. part of Port Phillip,” J. Brace-
 bridge Wilson.
 Vernacular name—*Fiddler Ray*.

FAMILY TORPEDINIDÆ.

NARCINE, Henle.

- N. tasmaniensis*, Richardson, T.Z.S. III, p. 178, 1849.
 Günther Cat. VIII, p. 452; Macleay Cat. 1112.
 Figured T.Z.S. III, pl. 11.
 Loc.—One specimen St. Kilda Beach; also in Bass's
 Straits, Castelnau, P.Z.S. Vict. I, p. 223.

FAMILY RAJIDÆ.

RAJA, Cuvier.

- R. lemprieri*, Richardson, Voy. Erebus and Terror, p. 43, 1846.
 Günther Cat. VIII, p. 463; Macleay Cat. 1114.
 Figured, Voyage Erebus and Terror, pl. 23.
 Loc.—*Passim*.
 Vernacular name—*Thornback Ray*.

(*R. dentata*, Klünzinger, Archiv. f. Naturg. xxxviii, p. 46, 1872.)

Macleay Cat. Sup. 1289.

Loc.—“Port Phillip,” Klünzinger, l.c.

R. scabra, Douglas Ogilby, Cat. Fishes in Australian Museum, Part I, 1888.

Macleay Cat. 1115.

Syn.—*R. rostrata*, Castelnau, P.Z.S. Vict. II, p. 57.

Loc.—Port Phillip, Castelnau.

FAMILY TRYGONIDÆ.

UROLOPHUS, Muller and Henle.

U. testaceus, Mull. and Henle, p. 174, 1841.

Günther Cat. VIII, p. 486 ; Macleay Cat. 1121.

Figured, Mull. and Henle, pl. 56.

Loc.—Port Phillip (Morton, Lucas.)

FAMILY MYLIOBATIDÆ.

MYLIOBATIS, Cuvier.

M. nieuhofii, Cuv. Règne Animal, 1830.

Günther Cat. VIII, p. 491 ; Macleay Cat. 1123.

Loc.—*Passim*.

Vernacular name—*Eagle Ray, Sting Ray.*

(*M. australis*, Macleay Cat. 1124, 1880.)

Figured, M'Coy, Prodr. Zool. Vict. pl. 63.

Loc.—One specimen Queenscliff, M'Coy, l.c.

SUB-CLASS III.—CYCLOSTOMATA.

FAMILY PETROMYZONTIDÆ.

MORDACIA, Gray.

M. mordax, Richardson, Voy. Erebus and Terror, 1846.

Günther Cat. VIII, p. 507 ; Macleay Cat. 1127.

Figured, Voy. Erebus and Terror, pl. 38.

Loc.—Lower Yarra, Castelnau, P.Z.S. Vict. I, p. 229.

Vernacular name—*Lamprey.*

(NEOMORDACIA, Castelnau.)

(*N. howittii*, Castelnau, P.Z.S. Vict. I, p. 232, 1872.)

Macleay Cat. 1128.

Loc.—One specimen, Cape Schanck, Castelnau, l.c.

GEOTRIA, Gray.

G. australis, Gray, P.Z.S., p. 238, 1851.

Günther Cat. VIII, p. 508 ; Macleay Cat. 1129.

Loc.—Saltwater R., Castelnau, P.Z.S. Vict. I, p. 227.

(YARRA, Castelnau.)

(*Y. singularis*, Castelnau, P.Z.S. Vict. I, p. 231, 1872.)

Macleay Cat. 1132.

Loc.—One specimen, Lower Yarra, Castelnau, l.c.

SUB-CLASS IV.—LEPTOCARDII.

FAMILY CIRROSTOMI.

BRANCHIOSTOMA, Costa.

B. lanceolatum, Pallas, Spicil. Zool. X, p. 19, 1769.

Günther Cat. VIII, p. 513 ; Macleay Cat. 1133.

Figured, E. Ray Lankester, Q.J.M.S., 1889.

Loc.—Port Phillip and Western Port (if our species be identical with above).

Vernacular name.—*Lancelet*.